

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)		Docket No. APPM/6222		Serial No. 10/032,284	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant Chen, et al.		Confirmation No.: Unknown	
(Use several sheets if necessary)		Filing Date December 21, 2001		Group Unknown	
Examiner Unknown					

O I P E
MAY 30 2002
U.S. DEPARTMENT OF COMMERCE
PATENT & TRADEMARK OFFICE

2002
D

U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
W	A1	4,813,846	03/21/89	Helms	414	744.1	04/29/87
	A2	4,917,556	04/17/90	Stark et al.	414	217	05/26/89
	A3	4,951,601	08/28/90	Maydan, et al.	118	719	06/23/89
	A4	5,000,113	03/19/91	Wang et al.	118	723	12/19/86
	A5	5,028,565	07/02/1991	Chang, et al.	437	192	08/25/1989
	A6	5,173,474	12/22/1992	Connell, et al.	505	1	03/11/1991
	A7	5,186,718	02/16/93	Tepman et al.	29	25.01	04/15/91
	A8	5,205,077	04/27/93	Wittstock	51	165 R	08/28/91
	A9	5,234,561	08/10/93	Randhawa et al.	204	192.38	08/25/88
	A10	5,259,881	11/09/93	Edwards, et al.	118	719	05/17/91
	A11	5,286,296	02/15/94	Sato et al.	118	719	01/09/92
	A12	5,580,380	12/03/1996	Liu, et al.	117	86	01/30/1995
	A13	5,609,689	03/11/97	Kato et al.	118	719	06/03/96
	A14	5,667,592	09/16/97	Boltnott et al.	118	719	04/16/96
	A15	5,674,786	10/07/97	Turner et al.	437	225	06/05/95
	A16	5,695,564	12/09/97	Imahashi	118	719	08/03/95
	A17	5,730,801	03/24/98	Tepman et al.	118	719	08/23/94
	A18	5,788,447	08/04/98	Yonemitsu et al.	414	217	08/05/96
	A19	5,788,799	08/04/98	Steger, et al.	156	345	06/11/96
	A20	5,801,634	09/01/98	Young et al.	340	635	09/08/97
	A21	5,856,219	01/05/99	Naito et al.	438	241	08/18/97
	A22	5,866,213	02/02/99	Foster et al.	427	573	07/19/97
	A23	5,866,795	02/02/99	Wang et al.	73	1.36	03/17/97
	A24	5,882,165	03/16/99	Maydan et al.	414	217	09/10/97
	A25	5,882,413	03/16/99	Beaulieu et al.	118	719	07/11/97
✓	A26	5,928,389	07/27/99	Jevtic	29	25.01	10/21/96

Examiner KARLA MOORE	Date Considered 9/13/03
-------------------------	----------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. APPM/6222		Serial No. 10/032,284	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Chen, et al.		Confirmation No.: Unknown	
(Use several sheets if necessary)					Filing Date December 21, 2001		Grade Unknown	
Examiner Unknown								

MAY 30 2002
U.S. DEPT. OF COMMERCE
PATENT & TRADEMARK OFFICE

RECEIVED
JUN 05 2002

Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
W	B1	58-098917	06/13/1983	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B2	58-100419	06/15/1983	JP	H01L	21/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B3	61-035847	02/20/1986	JP	B01J	19/08	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B4	61-210623	09/18/1986	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B5	62-069508	03/30/1987	JP	H01L	21/203	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B6	62-141717	06/25/1987	JP	H01L	21/203	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B7	62-167297	07/23/1987	JP	C30B	29/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B8	62-171999	07/28/1987	JP	C30B	29/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B9	62-232919	10/13/1987	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B10	63-062313	03/18/1988	JP	H01L	21/203	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B11	63-085098	04/15/1988	JP	C30B	21/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B12	63-090833	04/21/1988	JP	H01L	21/365	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B13	63-222420	09/16/1988	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B14	63-222421	09/16/1988	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B15	63-227007	09/21/1988	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B16	63-252420	10/19/1988	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B17	63-266814	11/02/1988	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B18	64-009895	01/13/1989	JP	C30B	29/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B19	64-009896	01/13/1989	JP	C30B	29/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B20	64-009897	01/13/1989	JP	C30B	29/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B21	64-037832	02/08/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B22	64-082615	03/28/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B23	64-082617	03/28/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
✓	B 24	64-082671	03/28/1989	JP	H01L	29/78	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Examiner	KAPLA MOORE	Date Considered	9/13/03
----------	-------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

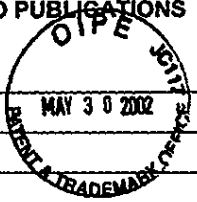
U.S. Department of Commerce, Patent and Trademark Office					Docket No.		Serial No.	
(PTO Form 1449 modified)					APPM/6222		10/032,284	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant		Confirmation No.:	
					Chen, et al.		Unknown	
(Use several sheets if necessary)					Filing Date		Group	
Examiner Unknown					December 21, 2001		Unknown	
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
W	B25	64-082676	03/28/1989	JP	H01L	29/80	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B26	64-090524	04/07/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B27	01-103982	04/21/1989	JP	C30B	23/08	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B28	01-103996	04/21/1989	JP	C30B	29/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B29	01-117017	05/09/1989	JP	H01L	21/203	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B30	01-143221	06/05/1989	JP	H01L	21/314	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B31	01-143233	06/05/1989	JP	H01L	21/76	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B32	01-154511	06/16/1989	JP	H01L	21/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B33	01-236657	09/21/1989	JP	H01L	29/80	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B34	01-245512	09/29/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B35	01-264218	10/20/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B36	01-270593	10/27/1989	JP	C30B	25/02	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B37	01-272108	10/31/1989	JP	H01L	21/203	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B38	01-290221	11/22/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B39	01-290222	11/22/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B40	01-296673	11/30/1989	JP	H01L	29/88	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B41	01-303770	12/07/1989	JP	H01L	39/24	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B42	01-305894	12/11/1989	JP	C30B	23/08	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B43	01-313927	12/19/1989	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B44	02-012814	01/17/1990	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B45	02-014513	01/18/1990	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B46	02-017634	01/22/1990	JP	H01L	21/225	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B47	02-063115	03/02/1990	JP	H01L	21/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
V	B48	02-074029	03/14/1990	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Examiner KAPLA MOORE					Date Considered 9/13/03			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. APPM/6222		Serial No. 10/032,284	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Chen, et al.		Confirmation No.: Unknown	
(Use several sheets if necessary)					Filing Date December 21, 2001		Group Unknown	
Examiner Unknown								
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
W	B49	02-074587	03/14/1990	JP	C30B	23/08	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B50	02-106822	04/18/1990	JP	H01B	13/00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B51	02-129913	05/18/1990	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B52	02-162717	06/22/1990	JP	H01L	21/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B53	02-172895	07/04/1990	JP	C30B	29/36	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B54	02-196092	08/02/1990	JP	C30B	25/14	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B55	02-203517	08/13/1990	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B56	02-230690	09/13/1990	JP	H05B	33/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B57	02-230722	09/13/1990	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B58	02-246161	10/01/1990	JP	H01L	29/784	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B59	02-264491	10/29/1990	JP	H01S	3/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B60	02-283084	11/20/1990	JP	H01S	3/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B61	02-304916	12/18/1990	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B62	03-019211	01/28/1991	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B63	03-022569	01/30/1991	JP	H01L	29/804	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B64	03-023294	01/31/1991	JP	C30B	25/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B65	03-023299	01/31/1991	JP	C30B	29/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B66	03-044967	02/26/1991	JP	H01L	29/48	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B67	03-070124	03/26/1991	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B68	03-185716	08/13/1991	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B69	03-208885	09/12/1991	JP	C30B	23/02	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B70	03-234025	10/18/1991	JP	H01L	21/318	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B71	03-286522	12/17/1991	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
✓	B72	04-031391	02/03/1992	JP	C30B	23/08	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Examiner KARLA MOORE					Date Considered 9/13/03			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. APPM/6222		Serial No. 10/032,284	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Chen, et al.		Confirmation No.: Unknown	
					Filing Date December 21, 2001		Group Unknown	
(Use several sheets if necessary)					Examiner Unknown			
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
W	B73	04-031396	02/03/1992	JP	C30B	25/14	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B74	04-100292	04/02/1992	JP	H01S	3/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B75	04-111418	04/13/1992	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B76	04-132214	05/06/1992	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B77	04-132681	05/06/1992	JP	C30B	25/14	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B78	04/151822	05/25/1992	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B79	04-162418	06/05/1992	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B80	04-175299	06/23/1992	JP	C30B	29/68	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B81	04-186824	07/03/1992	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B82	04-212411	08/04/1992	JP	H01L	21/203	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B83	04-260696	09/16/1992	JP	C30B	29/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B84	04-273120	09/29/1992	JP	H01L	21/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B85	04-285167	10/09/1992	JP	C23C	14/54	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B86	04-291916	10/16/1992	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B87	04-325500	11/13/1992	JP	C30B	33/00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B88	04-328874	11/17/1992	JP	H01L	29/804	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B89	05-029228	02/05/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B90	05-047665	02/26/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B91	05-047666	02/26/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B92	05-047668	02/26/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B93	05-074717	03/26/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B94	05-074724	03/26/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B95	05-102189	04/23/1993	JP	H01L	21/336	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B96	05-160152	06/25/1993	JP	H01L	21/336	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Examiner KAPLA MOORE					Date Considered 9/13/03			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. APPM/6222		Serial No. 10/032,284	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Chen, et al.		Confirmation No.: Unknown	
(Use several sheets if necessary)					Filing Date December 21, 2001		Group Unknown	
Examiner Unknown								
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
W	B97	05-175143	07/13/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B98	05-175145	07/13/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B99	05-182906	07/23/1993	JP	H01L	21/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B100	05-186295	07/27/1993	JP	C30B	25/02	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B101	05-206036	08/13/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B102	05-234899	09/10/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B103	05-235047	09/10/1993	JP	H01L	21/338	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B104	05-251339	09/28/1993	JP	H01L	21/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B105	05-270997	10/19/1993	JP	C30B	29/68	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B106	05-283336	10/29/1993	JP	H01L	21/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B107	05-291152	11/05/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B108	05-304334	11/16/1993	JP	H01L	3/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B109	05-343327	12/24/1993	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B110	05-343685	12/24/1993	JP	H01L	29/784	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B111	06-045606	02/18/1994	JP	H01L	29/784	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B112	06-132236	05/13/1994	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B113	06-177381	06/24/1994	JP	H01L	29/784	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B114	06-196809	07/15/1994	JP	H01S	3/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B115	06-222388	08/12/1994	JP	G02F	1/136	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B116	06-224138	08/12/1994	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B117	06-230421	08/19/1994	JP	G02F	1/136	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B118	06-252057	09/09/1994	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B119	07-070752	03/14/1995	JP	C23C	16/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓	B120	07-086269	03/13/1995	JP	H01L	21/314	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Examiner KARLA MOORE					Date Considered 9/13/03			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. APPM/6222		Serial No. 10/032,284	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Chen, et al.		Confirmation No.: Unknown	
(Use several sheets if necessary)					Filing Date December 21, 2001		Group Unknown	
Examiner Unknown								



Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
W	B121	07-086269	03/13/1995	JP	H01L	21/314	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B122	08-181076	07/12/1996	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B123	08-245291	09/24/1996	JP	C30B	25/14	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B124	09-260786	10/03/1997	JP	H01S	3/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B125	09-293681	11/11/1997	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B126	10-188840	07/21/1998	JP	H01J	29/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B127	10-190128	07/21/1998	JP	H01S	3/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B128	10-308283	11/17/1998	JP	H05B	33/22	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B129	11-269652	10/05/1999	JP	C23C	16/44	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B130	2000-031387	01/28/2000	JP	H01L	27/04	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B131	2000-058777	02/25/2000	JP	H01L	27/108	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B132	2000-068072	03/03/2000	JP	H05B	33/22	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B133	2000-087029	03/28/2000	JP	C09K	11/08	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B134	2000-138094	05/16/2000	JP	H05B	33/10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B135	2000-218445	08/08/2000	JP	B23P	6/00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B136	2000-319772	11/21/2000	JP	C23C	14/24	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B137	2000-319772	03/28/2000	JP	C23C	16/00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B138	2000-340883	12/08/2000	JP	H01S	5/125	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B139	2000-353666	12/19/2000	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B140	2001-020075	01/23/2001	JP	C23C	16/44	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B141	2001-152339	06/05/2001	JP	C23C	16/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B142	2001-172767	06/26/2001	JP	C23C	16/40	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B143	2001-189312	07/10/2001	JP	H01L	21/316	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B144	2001-217206	08/10/2001	JP	H01L	21/285	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B145	2001-220287	08/14/2001	JP	C30B	25/02	<input checked="" type="checkbox"/>	<input type="checkbox"/>
↓	B146	2001-220294	08/14/2001	JP	C30B	29/20	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Examiner	LAPLA MOORE	Date Considered	9/13/03
----------	-------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
W	B147	2001-240972	09/04/2001	JP	C23C	16/45B	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B148	2001-254181	09/18/2001	JP	C23C	16/46	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B149	2001-284042	10/12/2001	JP	H05B	33/04	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B150	2001-303251	10/31/2001	JP	C23C	16/44	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B151	2001-328900	11/27/2001	JP	C30B	29/68	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B152	0 429 270 A2	05/29/1991	EP	G03F	7/36	<input type="checkbox"/>	<input type="checkbox"/>
	B153	99/13504	03/18/1999	WO	H01L	21/68	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B154	01/15220	03/01/2001	WO	H01L	21/76B	<input type="checkbox"/>	<input type="checkbox"/>
	B155	98/51838	11/19/1998	WO	C23C	16/06	<input type="checkbox"/>	<input type="checkbox"/>
	B156	00/11721	03/02/2000	WO	H01L	29/43	<input type="checkbox"/>	<input type="checkbox"/>
	B157	90/02216	03/08/1990	WO	C23C	14/34	<input type="checkbox"/>	<input type="checkbox"/>
	B158	98/06889	02/19/1998	WO	D06F		<input type="checkbox"/>	<input type="checkbox"/>

KARLA MOORE

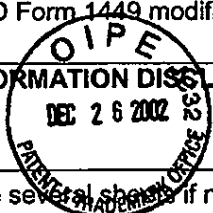
Date Considered 9/13/03

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office		Docket No.	Serial No.
(PTO Form 1449 modified)		APPM/6222	10/032,284
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant	Confirmation No.:
		Chen, et al.	Unknown
(Use several sheets if necessary)		Filing Date	Group
Examiner Unknown		December 21, 2001	Unknown
OTHER ART			
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.	
W	C1	Ohba, et al., "Thermal Decomposition of Methylhydrazine and Deposition Properties of CVD TiN Thin Films", Conference Proceedings, Advanced Metallization for ULSI Applications in 1993 (1994), pp. 143-149	
	C2	Scheper, et al., "Low-temperature deposition of titanium nitride films from dialkylhydrazine-based precursors", Materials Science in Semiconductor Processing 2 (1999), pp. 149-157	
	C3	Suzuki, et al., "A 0.2- μ m contact filling by 450°C-hydrazine-reduced TiN film with low resistivity", IEDM 92-979, pp. 11.8.1 - 11.8.3	
	C4	Suzuki, et al., "LPCVD-TiN Using Hydrazine and TiCl ₄ ", VMIC Conference (June 8-9, 1993), pp. 418-423	
	C5	IBM Tech. Disc. Bull. "Knowledge-Based Dynamic Scheduler in Distributed Computer Control, (June 1990), pp. 80-84	
	C6	IBM Tech. Disc. Bull. "Multiprocessor and Multitasking Architecture for Tool Control of the Advanced via Inspection Tools" (May 1992), pp. 190-191	
	C7	McGeachin, S., "Synthesis and properties of some β -diketiminates derived from acetylacetone, and their metal complexes", Canadian J. of Chemistry, Vol. 46 (1968), pp.1903-1912	
	C8	Solanki, et al., "Atomic Layer deposition of Copper Seed Layers", Electrochemical and Solid State Letters, 3(10) (2000), pp. 479-480	
	C9	NERAC.COM Retro Search: Atomic Layer Deposition of Copper, dated October 11, 2001	
	C10	NERAC.COM Retro Search: Atomic Layer Deposition / Epitaxy Aluminum Oxide Plasma, dated October 2, 2001	
	C11	NERAC Search abstract of "Atomic Layer deposition of Ta and Ti for Interconnect Diffusion Barriers", by Rosnagel, et al., J. Vac. Sci. & Tech., 18(4) (July 2000)	
	C12	Abstracts of articles re atomic layer deposition	
	C13	Abstracts of search results re atomic layer deposition, search dated January 24, 2002	
	C14	Abstracts of articles re atomic layer deposition and atomic layer nucleation	
	C15	Abstracts of articles re atomic layer deposition and semiconductors and copper	
Examiner	KARLA MOORE		Date Considered 9/13/03
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.			

U.S. Department of Commerce, Patent and Trademark Office		Docket No.	Serial No.
(PTO Form 1449 modified)		APPM/6222	10/032,284
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant	Confirmation No.:
		Chen, et al.	Unknown
(Use several sheets if necessary)		Filing Date	Group
Examiner Unknown		December 21, 2001	Unknown
OTHER ART			
*Examiner Initial	Including Author, Title, Date, Pertinent Pages, Etc.		
W	C16	Abstracts of articles – atomic layer deposition	
	C17	NERAC Search – Atomic Layer Deposition, search dated October 16, 2001	
	C18	Bader, et al., "Integrated Processing Equipment", Solid State Technology, Cowan Pub., Vol. 33, No. 5 (May 1, 1990), pp. 149-154	
	C19	Choi, et al., "The effect of annealing on resistivity of low pressure chemical vapor deposited titanium diboride", J. Appl. Phys. 69(11) (June 1, 1991), pp. 7853-7861	
	C20	Choi, et al., "Stability of TiB ₂ as a Diffusion Barrier on Silicon", J. Electrochem. Soc. 138(10) (October 1991), pp. 3062-3067	
	C21	"Cluster Tools for Fabrication of Advanced devices" Jap. J. of Applied Physics, Extended Abstracts, 22 nd Conference Solid State Devices and Materials (1990), pp. 849 – 852	
	C22	"Applications of Integrated processing", Solid State Technology, US, Cowan Pub., Vol 37, No. 12 (December 1, 1994), pp. 45-47	
	C23	Kitigawa, et al., "Hydrogen-mediated low temperature epitaxy of Si in plasma-enhanced chemical vapor deposition", Applied Surface Science (2000), pp. 30-34	
✓	C24	Lee, et al., "Pulsed nucleation for ultra-high aspect ratio tungsten plugfill", Novellus Systems, Inc. (2001), pp. 1-2 (COPY NOT AVAILABLE TO APPLICANT AT THIS TIME)	

Examiner		Date Considered	
KAPLA MOORE		9/13/03	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.			

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)		Docket No. AMAT/5192.02/CPI/ COPPER/PJS	Serial No. 10/932,284
INFORMATION DISCLOSURE STATEMENT BY APPLICANT 		Applicant Chen, et al.	Confirmation No.: 4034
(Use several sheets if necessary)		Filing Date December 21, 2001	Group 1734
Examiner Unknown			

U.S. Patent Documents

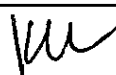



*Examiner Initial	Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A1					
	A2					
	A3					
	A4					
	A5					
	A6					
	A7					
	A8					
	A9					
	A10					
	A11					
	A12					
	A13					

RECEIVED
DEC 31 2002
TC 1700

Foreign Patent Documents

*Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						YES	NO
	B1					<input type="checkbox"/>	<input type="checkbox"/>
	B2					<input type="checkbox"/>	<input type="checkbox"/>
	B3					<input type="checkbox"/>	<input type="checkbox"/>

OTHER ART

*Examiner Initial	Including Author, Title, Date, Pertinent Pages, Etc.
	C1 Rossnagel, S.M., et al., "Plasma-enhanced atomic layer deposition of Ta and Ti for interconnect diffusion barriers," J. Vac. Sci. Technol. B 18(4), Jul/Aug 2000
	C2 Partial Search Report (Annex to Form PCT/ISA/206), dated October 25, 2002 for PCT/US02/02651
	C3 
Examiner	KARLA MOORE
Date Considered	9/13/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)				Patent No. AMAT/5192/02/CPI/ COPPER/PJS		Serial No. 10/032,284	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Chen, et al.		Confirmation No. 4034	
Examiner				Filing Date December 21, 2001		Group 1734	

RECEIVED
JUL 23 2003
TC 1700

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date if Appropriate
W	A1	6,271,148 B1	08-07-2001	Kao, et al.	438	727	10-13-1999
	A2	6,270,572 B1	08-07-2001	Kim, et al.	117	93	08-09-1999
	A3	5,951,771	09-14-1999	Raney, et al.	118	723	09-30-1996
	A4	5,221,449	06-22-1993	Colgan, et al.	204	192.15	07-09-1992
	A5	5,000,113	03-19-1991	Wang, et al.	118	723	12-19-1986
	A6	2002/0127336 A1		Chen, et al.	427	250	01-16-2002
	A7						
	A8						
	A9						
	A10						

Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
W	B1	EP 1 077 484 A2	02-21-2001	EP	H01L	21/768	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B2	WO 01/29891 A1	04-26-2001	WIPO	H01L	21/768	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B3						<input type="checkbox"/>	<input type="checkbox"/>
	B4						<input type="checkbox"/>	<input type="checkbox"/>
	B5						<input type="checkbox"/>	<input type="checkbox"/>

OTHER ART		
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
W	C1	International Search Report from the European Patent Office for International Application No. PCT/US 02/34553, dated May 8, 2003.
	C2	International Search Report from the European Patent Office for International Application No. PCT/US 02/34277, dated May 9, 2003.
	C3	

Examiner	KARLA MOORE	Date Considered	9/13/03
----------	-------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.